



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE 09/547,588 04/11/2000		FILING DATE	FIRST NAMED INVENTOR Mohamed K. Diab	ATTORNEY DOCKET NO.	CONFIRMATION NO. 4577
		04/11/2000		MASIMO.056DC1	
20995	7590	05/16/2003			
		NS OLSON & BE.	EXAMINER		
2040 MAIN STREET FOURTEENTH FLOOR				WINAKUR, ERIC FRANK	
IRVINE, CA 92614			ART UNIT	PAPER NUMBER	
				3736	
				DATE MAILED: 05/16/2003	12

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)					
	09/547,588	DIAB ET AL.					
Office Action Summary	Examiner	Art Unit					
·	Eric F Winakur	3736					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	i6(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed rs will be considered timely. I the mailing date of this communication. D (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 11 N	<u>flarch 2003</u> .						
2a) ☐ This action is FINAL. 2b) ☑ Thi	s action is non-final.						
closed in accordance with the practice under the	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>31-52</u> is/are pending in the application							
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) 40-44,47-49,51 and 52 is/are allowed.	Claim(s) 40-44,47-49,51 and 52 is/are allowed.						
6)⊠ Claim(s) <u>31-33,37-39 and 45</u> is/are rejected.	Claim(s) <u>31-33,37-39 and 45</u> is/are rejected.						
☑ Claim(s) <u>34-36,46 and 50</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.						
9) The specification is objected to by the Examiner	r.						
10) The drawing(s) filed on is/are: a) accep	ted or b)⊡ objected to by the Exa	miner.					
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on	is: a) approved b) disappro	oved by the Examiner.					
If approved, corrected drawings are required in rep	ly to this Office action.						
12)☐ The oath or declaration is objected to by the Exa	aminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents	s have been received in Applicat	ion No					
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domestic							
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesting the companies of the companies of the foreign language pro 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)					
S. Patent and Trademark Office							

Art Unit: 3736

DETAILED ACTION

Claim Objections

1. Claim 46 is objected to because of the following informalities: the phrase "a transform a second time-domain" should read "transform a second time-domain". Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 31 - 33, 37 - 39, and 45 are rejected under 35 U.S.C. 102(b) as being 3. anticipated by Corenman et al. Corenman et al. teach frequency domain analysis of a measured optical signal for heart rate determination (column 11, line 13 - column 12, line 26). A relative maximum in the frequency spectrum in the region of expected heart rates corresponds with a fundamental frequency at the heart rate. Confirmation that this is the fundamental frequency is achieved by determining the presence of another relative maximum at twice the rate.

Double Patenting

Claim 50 is objected to under 37 CFR 1.75 as being a substantial duplicate of 4. claim 49. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is

Application/Control Number: 09/547,588

Art Unit: 3736

proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

It is noted that Applicant states in their remarks that they have amended claim 50, but no amendments have been made in claim 50. It is further noted that a strikethrough portion is shown in the claim, which perhaps Applicant intended to insert into the claim.

Response to Arguments

5. Applicant's arguments with respect to claims 31 - 34, 37 - 39, and 45 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

- 6. Claims 40 44, 47 49, 51, and 52 are allowed.
- 7. Claim 46 would be allowable if rewritten or amended to overcome objection set forth in this Office action.
- 8. Claims 34 36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric F Winakur whose telephone number is 703/308-3940. The examiner can normally be reached on M-Th, 7:30-5; alternate Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on 703/308-3130. The fax phone numbers

Art Unit: 3736

for the organization where this application or proceeding is assigned are 703/305-3590 for regular communications and 703/305-3590 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703/308-0858.

Éric F Winakur Primary Examiner Art Unit 3736

May 14, 2003